

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2018.

Third Semester

Microbiology

MEDICAL AND PHARMACEUTICAL
MICROBIOLOGY

(For those who joined in July 2016 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Sulpha drugs have been discovered by _____
- (a) Alexander Fleming
 - (b) Domag
 - (c) Edward Jenner
 - (d) Joseph Lister

2. IMViC reaction of *E. coli* is _____
- (a) ++--
 - (b) ---++
 - (c) +-+-
 - (d) -+--
3. Select the correct statement(s) regarding CPC-NaCl
- (a) CPC-NaCl is expanded as Cetylpyridium Chloride - Sodium Chloride and is present in the transport media of sputum
 - (b) It digests the sputum and makes the culture static
 - (c) It is a transport media used for transportation of AFB
 - (d) All the above
4. Regarding tetanus, select the correct statement(s)
- (a) Tetanus is treated by toxoids
 - (b) It is a component of DPT
 - (c) TT could be administered at the age 3 months and booster dose should be taken at every 10 years interval
 - (d) All the above
5. National Institute of Virology is located at _____
- (a) Chennai
 - (b) Pune
 - (c) Hyderabad
 - (d) Delhi

6. Which one of the following is NOT a viral disease?
(a) Cholera (b) Meningitis
(c) SARS (d) Flu
7. Penicillin is specifically attack _____ bacteria
(a) *Streptococcus* sp
(b) *Staphylococcus* sp
(c) Both (a) and (b)
(d) *Pseudomonas* sp
8. At what percentage ethyl alcohol is used as a disinfectant?
(a) 90 (b) 70
(c) 60 (d) 50
9. Which one of the following is NOT a pharma company?
(a) Biocon (b) Cadila
(c) Ranbaxy (d) Aquafina
10. Which of the following are produced in pharma industries?
(a) Tablets
(b) Syrups
(c) Ointments
(d) All

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Comment on lower respiratory tract infections.
Or
(b) Explain the medical significance of *Entamoeba histolytica*.
12. (a) Give an account on Candidiasis.
Or
(b) What do you know about antifungal drugs?
13. (a) Add a short notes on SARS.
Or
(b) Enumerate the symptoms of Chikungunya.
14. (a) Display the desired features of antibiotics.
Or
(b) Differentiate antiseptics from disinfectants.
15. (a) Present the outline classification of sterilization.
Or
(b) Mention the pharma products tested for their sterility.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the etiology, transmission, pathogenesis, clinical manifestations, diagnosis, chemotherapy and prophylaxis of Tuberculosis.

Or

- (b) Write an essay on sexually transmitted diseases.

17. (a) Add a note on etiology, transmission, pathogenesis, clinical manifestations, diagnosis, chemotherapy and prophylaxis of malaria.

Or

- (b) Discuss in detail about rabies.

18. (a) Give an detail outbreak and the importance of Dengue.

Or

- (b) Describe about the techniques associated with the diagnosis of viral diseases.

19. (a) Discuss in detail about Kirby-Bauer Method with neat sketches.

Or

- (b) What are the factors influencing drug activity during treatment?

20. (a) Explain the importance and types of agencies fixing standards of drugs.

Or

- (b) Write an essay on sterility testing.
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